

UNCLASSIFIED

MSG DTG 081300Z JAN 15

FROM COMMANDER, AMCOM, REDSTONE ARSENAL, AL //AMSAM-SFA//

**SUBJECT - AVIATION SAFETY ACTION MESSAGE (ASAM), MAINTENANCE
MANDATORY, FUEL CELL, H-58-15-ASAM-03**

NOTE

This message is issued per AR 750-6 to Commanders of Army Commands (ACOM), Army National Guard (ARNG), Army Service Component Commands (ASCC), and Direct Reporting Units (DRU). Commanders must retransmit this message to all subordinate organizations. Notify the AMCOM SOF compliance officer at "usarmy.redstone.amcom.mbx.safety-sof-team@mail.mil" when complete.

NOTE

Per AR 750-6, commanders/directors in the grade of major general or civilian equivalent may authorize temporary exception from message requirements. These exceptions may only occur during combat operations, matters of life or death in civil disasters, or other emergencies when aircraft operation is required.

NOTE

Commanders unable to comply with the requirements of this message within the time frame specified will change the affected aircraft status symbol to a Grounding //X//.

NOTE

Commanders, facility managers, and contractors at all levels will not issue aircraft until they are in compliance with this message. Aircraft transferred to the U.S. Government via DD Form 250 after the message DTG are in compliance with message requirements.

NOTE

A listing of all messages and any required reports, supplements, or addendums can be downloaded at: "<https://asmprd.redstone.army.mil>".

- 1. END ITEM / MISSION DESIGN SERIES (MDS) AFFECTED** - All OH-58D (Kiowa Warrior) series aircraft.

2. SUMMARY -

2.1. Background - Select fuel cells manufactured by American Fuel Cell and Coated Fabrics (AMFUEL), CAGE 05476, do not meet procurement specifications. Additionally, a separate investigation revealed the interior liner of the fuel cell had separated. This caused activation of the self-sealing agent which reduced the amount of usable fuel. It was determined the separation was the result of the cell being improperly preserved when previously removed during extended maintenance.

2.2. Message Purpose -

2.2.1. Inspect for and remove from service all suspect fuel cells.

2.2.2. Provide publication changes to provide instructions for periodic visual inspections and preservation requirements for fuel cells.

3. INITIAL AIRCRAFT TAMMS-A (THE ARMY MAINTENANCE MANAGEMENT SYSTEM - AVIATION) ENTRY -

NOTE

When complying with the requirements of this message, complete forms and records entries per DA PAM 738-751. ULLS-A units will use appropriate "E" forms.

Upon receipt of this message, make the following entry on the DA Form 2408-13-1. Enter a Horizontal Dash //-// status symbol with the following statement: "Comply with H-58-15-ASAM-03, Fuel Cell, before [####.#] aircraft hours but not to exceed 06 FEB 15." Calculate [####.#] as current aircraft flight hours plus 100 hours.

4. SPECIAL PROVISIONS TO MESSAGE REQUIREMENTS (AIRCRAFT) -

NOTE

For message purposes, aircraft away from home station are defined as those not having access to a maintenance facility capable of meeting all message requirements.

4.1. Aircraft in Transit (surface/air shipment/ferry status/ aircraft away from home station) - Unit commanders unable to comply with the requirement specified in paragraph 3 may defer making the Initial Aircraft TAMMS-A entry until arrival at final destination. Adjust the date in the TAMMS-A entry to be 30 days after arrival at destination.

4.2. Aircraft Pending Attrition - The inspection and correction procedures in this message are not required for the following categories of aircraft.

- 4.2.1. Aircraft identified for attrition by the OH-58D Project Office (i.e. crash or battle damaged awaiting final disposition instructions).
- 4.2.2. Aircraft in storage at the 309th Aerospace Maintenance and Regeneration Group.
- 4.2.3. Activities with these aircraft will take the following actions to meet the message requirements.
 - 4.2.3.1. Enter the required Initial Aircraft TAMMS-A entry on the DA Form 2408-13-1 per paragraph 3.
 - 4.2.3.2. Note message compliance on the applicable DA Form per paragraph 8 by entering "H-58-15-ASAM-03 not complied with".
 - 4.2.3.3. Compliance reporting via AMTRACKS is NOT required.
- 4.3. Aircraft on a Grounding //X// status symbol as a result of this message will be maintained in flyable storage. Ground run-ups at normal operating rotor RPM are authorized.

5. MAINTENANCE APPLICATION -

- 5.1. Category of Maintenance - Field at an Aviation Maintenance Company.
- 5.2. Estimated Time Required -
 - 5.2.1. Time to complete inspection - Total of 8.0 man-hours using 2 persons.

NOTE

The time stated below does not include time for Maintenance Operational Checks or test flights.

- 5.2.2. Time for repair/replacement - Total of 16.0 man-hours using 2 persons.

6. ASSEMBLIES/COMPONENTS/PARTS AFFECTED -

Nomenclature	PN	NSN
Tank, Fuel, Aircraft	406-060-601-103	1560-01-265-2023
Tank, Fuel, Aircraft	406-060-601-101	1560-01-164-6785

7. SPECIAL TOOLS AND FIXTURES REQUIRED - N/A.

- 8. TECHNICAL PROCEDURES/INSTRUCTIONS** - Unless otherwise stated, all message requirements shall be completed by the suspense date listed in paragraph 3.

NOTE

This message includes a required addendum. If the addendum is not received with this message, it may be viewed/downloaded at ["https://asmprd.redstone.army.mil"](https://asmprd.redstone.army.mil).

NOTE

Unless otherwise stated, all maintenance tasks will be performed per TM 1-1520-248-23&P.

NOTE

Requests for exceptions (waivers) to this message will be submitted per GEN-14-AMAM-01, Message Exception (Waiver) Process, and AR 750-6. For help, contact the AMCOM Safety POC in paragraph 13.4.1.

- 8.1. Defuel the aircraft.
- 8.2. Remove the Closed Circuit Refueling (CCR) Port.
- 8.3. Referring to the addendum to aid in identification, inspect the fuel cell to determine if a Meggitt/Engineered Fabric Corporation (EFC) or AMFUEL Cell is installed.
- 8.4. Using a bright flash light, inspect the interior of fuel cell for loose seams, cuts, cracks, abrasions, scuffed surfaces, tears, and any areas that appears to have become soaked with fuel.
 - 8.4.1. If ANY damage is found, make the following entry on the DA Form 2408-13-1. Enter a Grounding //X// status symbol with the following statement: "Fuel cell unserviceable per H-58-15-ASAM-03."
 - 8.4.2. If an AMFUEL cell is installed and NO damage is found, proceed to paragraph 8.5.
 - 8.4.3. If an Meggitt/EFC cell is installed and NO damage is found, the inspection is complete. Proceed to paragraph 8.7.
- 8.5. If an AMFUEL fuel cell is installed, remove sufficient components from the avionics shelf to access and remove the Fuel Quantity Probe.
- 8.6. Referring to figure 6 of the addendum, use a bright flashlight and a mirror or borescope to identify the fuel cell SN. Determine if the fuel cell SN is listed below.

00762	00763	00764	00765	00766	00767	00768
00769	00770	00772	00773	00774	00775	00776
00777	00779	00780	00782	00785	00786	00787
00788	00789	00791	00794	00799		

 - 8.6.1. If the fuel cell SN is NOT listed, the inspection is complete. Proceed to paragraph 8.7.
 - 8.6.2. If the fuel cell SN is listed, make the following entry on the DA Form 2408-13-1. Enter a Horizontal Dash //-// status symbol with the following statement: "Fuel cell requires replacement per H-58-15-ASAM-03 by 08 APR 15."
- 8.7. Clear the initial entry from paragraph 3 and note compliance on DA Form 2408-15.

9. PROCEDURES/INSTRUCTIONS FOR ASSEMBLIES/COMPONENTS/PARTS IN WORK OR IN STOCK (AT ALL LEVELS INCLUDING WAR RESERVES) -

Annotate the serviceability tag with: "H-58-15-ASAM-03, Fuel Cell, not complied with." Do not remove original condition tags.

9.1. Items in Retail Stock - Commanders and facility managers that maintain stock at installation level and below will complete the following procedures.

9.1.1. Suspend issue of affected items until in compliance with message requirements.

9.1.2. Contact the supported aviation unit, as required, to perform the procedures required on affected items.

9.1.3. Comply with inspection and correction procedures as required to return items to serviceable stock.

9.1.4. Submit a Retail Stock Task/Inspection report per paragraph 11.3.

9.2. Items in Wholesale Stock (including Depot Stock, Depot Maintenance, and Overhaul/Repair Facilities) - Annotate the Serviceability Tag per paragraph 9.

10. SUPPLY/PARTS (REQUISITION/DISPOSITION) -

10.1. Parts Required -

Nomenclature	PN/NSN	Qty	Cost ea.	Total \$
Tank, Fuel,	406-060-601-101	1	\$10345.00	\$10345.00
Aircraft	1560-01-164-6785			

Total cost per aircraft = \$10345.00

10.2. Bulk and Consumable Materials - N/A.

NOTE

Project Code X0A (X-ray Zero Alpha) is required to track stock costs as a result of message actions.

10.3. Requisitioning Instructions - Requisition replacement parts using normal supply procedures. All requisitions shall use Project Code "X0A".

NOTE

Enter H-58-15-ASAM-03, Fuel Cell, and a brief description of the deficiency in Block 3b of the Product Quality Deficiency Report (PQDR).

10.4. Disposition of Discrepant Parts/Components - Unit will submit a Category "1" Product Quality Deficiency Report (CAT "1" PQDR). Hold discrepant part pending disposition instructions from the Technical POC. If instructed to dispose of using normal supply procedures, all turn-in documents must include Project Code "X0A".

10.5. Disposition of Hazardous Material - Per Environmental Protection Agency directives as implemented by your servicing environmental coordinator (AR 200-1).

11. COMPLIANCE REPORTING REQUIREMENTS -

NOTE

Report compliance with this message via the AMCOM Message Tracking System (AMTRACKS) at ["https://amtracks.redstone.army.mil"](https://amtracks.redstone.army.mil). Unit personnel designated to submit reports must establish a profile in AMTRACKS.

11.1. Aircraft Initial Compliance Report - All reporting requirements will be accomplished as part of the "Final Compliance Report".

11.2. Aircraft Final Compliance Report - Submit the report via AMTRACKS by 09 FEB 15 per AR 750-6. This report will consist of the Aircraft SN, MDS, Date of Initial TAMMS-A Entry, the applicable Inspection Results/Comments as follows -

"AMFUEL Cell Installed", include "Pass" or "Fail" and the Fuel Cell SN
"MEGGITT Cell Installed", include "Pass" or "Fail"
and check the box "Entered on DA Form 2408-15".

NOTE

Facilities which maintain Retail Stock must have a general user registered in AMTRACKS to submit the required compliance report. This registration does not require entry of an aircraft SN or MDS.

11.3. Retail Stock Task/Inspection Compliance Report (Installation level and below) - Submit the report via AMTRACKS by 09 FEB 15 per AR 750-6. This report will only be submitted for components which are identified as suspect and will include the Component Nomenclature, PN, SN, and Inspection Results (enter "PASS" or "FAIL").

11.4. Wholesale Stock Task/Inspection Compliance Report (including Depot Stock, Depot Maintenance, and Overhaul/Repair Facilities) - N/A.

12. PUBLICATION REQUIREMENTS -

12.1. References -

12.1.1. AR 750-6.

12.1.2. DA PAM 738-751.

12.1.3. AR 200-1.

12.1.4. TM 1-1520-248-PPM.

12.1.5. TM 1-1520-248-23&P.

12.2. Publication Changes - The following publications shall be changed to reflect this message. A copy of this message will be used as authority to implement the change until the official TM change is received. Pen and ink changes are authorized per DA PAM 25-40.

12.2.1. TM 1-1520-248-PPM.

12.2.1.1. Sequence Number for the Umbrella Check Valve - ADD the following inspection procedure: Visually inspect the interior of fuel cell for conditions outlined in TM 1-1500-204-23 (Table 2-5, cell interior), sealant activation and any foreign objects.

12.2.1.2. PPM 15 - ADD: Inspect Fuel Indicating System - Fuel Indication System Checking (work package).

12.2.1.3. Preventive Maintenance Services (PMS) - ADD the following to CHECKLIST fuselage right side: Inspect fuel cell interior for damage, deterioration or activation.

12.2.2. TM 1-1520-248-23.

12.2.2.1. ADD the following NOTE to Fuel Cell-Removal: If fuel cell remains uninstalled or defueled for over 30 days, preserve tank IAW Intermediate storage work package.

12.2.2.2. Add the following NOTE to Fuel Cell-Install: Annotate the SN of installed Fuel Cell on DA Form 2408-15.

12.2.2.3. ADD in Special Inspection: Anytime an unusually high or low fuel capacity or unusually high or low consumption rate is noted, perform inspection of fuel cell with special attention to possible self-sealing material and/or inner liner separation.

13. POINTS OF CONTACT -

13.1.1. Primary - Mr. Joe Wathen (Avion), DSN 788-2499 or 256-842-2499. Email: "joseph.e.wathen.ctr@mail.mil".

13.1.2. Alternate - Mr. Tim Tucker, DSN 897-5685 or 256-313-5685. Email: "timothy.w.tucker24.civ@mail.mil".

13.2. Project/Product Manager's (PM) Office POCs -

13.2.1. Primary - Mr. Charles Wright, DSN 645-7077 or 256-955-7077. Fax: DSN 645-7125 or 256-955-7125. Email: "charles.d.wright.civ@mail.mil".

13.2.2. Alternate - Mr. Jack McRoberts, DSN 645-8265 or 256-955-8265. Fax: 897-1541 or 256-313-1541. Email: "ellis.j.mcroberts.civ@mail.mil".

13.2.3. Item Manager (Fuel Cell) - Ms. Loyett Vining, DSN 897-1423 or 256-313-1423. Email: "loyett.vining.civ@mail.mil".

13.3. Forms and Records POCs -

13.3.1. Primary (TAMMS-A) - Mr. Dean Geiselhart, DSN 788-2971 or 256-842-2971. Email: "dean.d.geiselhart.civ@mail.mil".

13.3.2. Primary (MCDS/LCF) - Mr. Jeff Sutherland, DSN 788-0860 or 256-842-0860. Email: "jeffrey.a.sutherland.civ@mail.mil".

13.3.3. Alternate (TAMMS-A and MCDS/LCF) - Mr. Lloyd Willits, DSN 746-3598 or 256-876-3598. Email: ["lloyd.e.willits.civ@mail.mil"](mailto:lloyd.e.willits.civ@mail.mil).

13.4. AMCOM Safety POCs -

13.4.1. Safety (Primary) - Mr. Harry Trumbull, DSN 897-2095 or 256-313-2095. Email: ["harry.e.trumbull.civ@mail.mil"](mailto:harry.e.trumbull.civ@mail.mil).

13.4.2. Safety (Alternate) - Mr. Don Swallom, DSN 788-8641 or 256-842-8641. Email: ["donald.w.swallom.civ@mail.mil"](mailto:donald.w.swallom.civ@mail.mil).

13.4.3. AMTRACKS (Primary) - Mr. Vic Mosley, DSN 788-8620 or 256-842-8620. Email: ["victor.e.mosley.civ@mail.mil"](mailto:victor.e.mosley.civ@mail.mil).

13.4.4. AMTRACKS (Alternate) - Ms. Teri Phipps, DSN 897-2097 or 256-313-2097. Email: ["teri.l.phipps.civ@mail.mil"](mailto:teri.l.phipps.civ@mail.mil).

13.5. Foreign Military Sales POCs -

13.5.1. Primary - Ms Tina Pizits, DSN 746-9019 or 256-876-9019. Email: ["tina.m.pizitz.civ@mail.mil"](mailto:tina.m.pizitz.civ@mail.mil).

13.5.2. Alternate - Mr. Kendall Cannon, DSN 897-5564 or 256-313-5564. Email: ["kendall.e.cannon.civ@mail.mil"](mailto:kendall.e.cannon.civ@mail.mil).

13.5.3. Alternate - Mr. Robert Dubose, DSN 788-1068 or 256-842-1068. Email: ["robert.w.dubose.civ@mail.mil"](mailto:robert.w.dubose.civ@mail.mil).